

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P964574

Luminaire Tested: **NAV-SB3C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19174.7 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

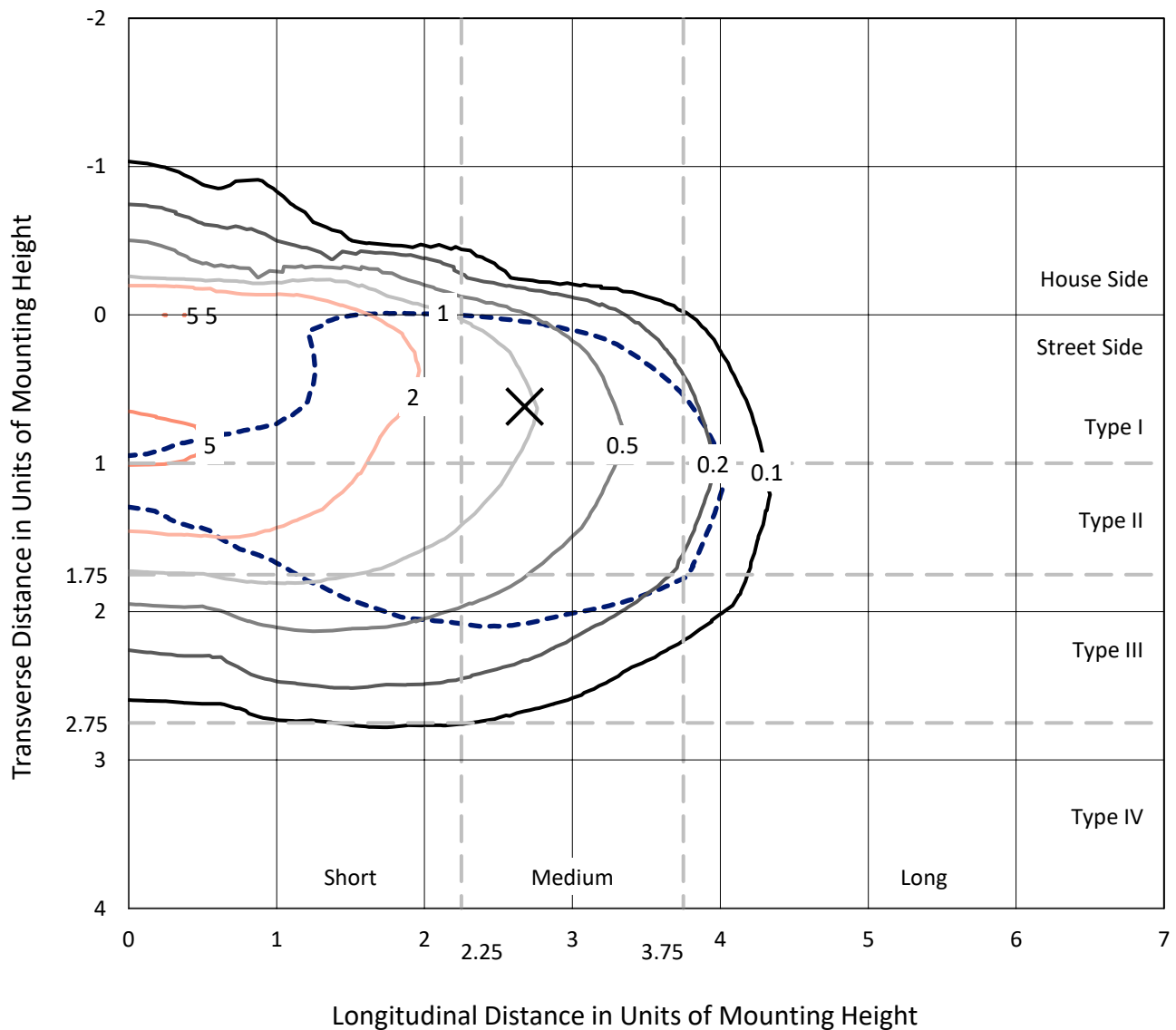


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Iso-Footcandle Lines of Horizontal Illumination

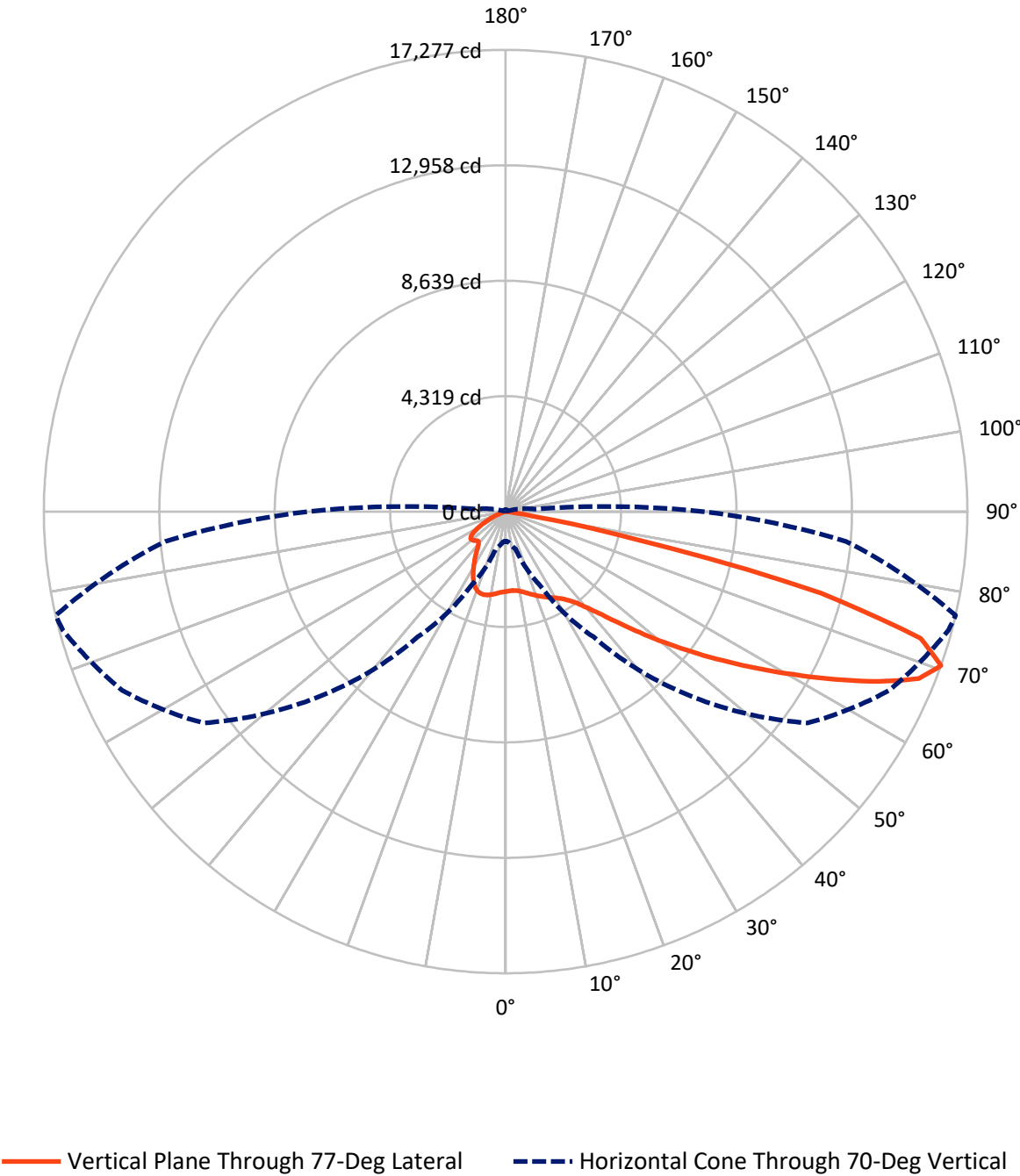
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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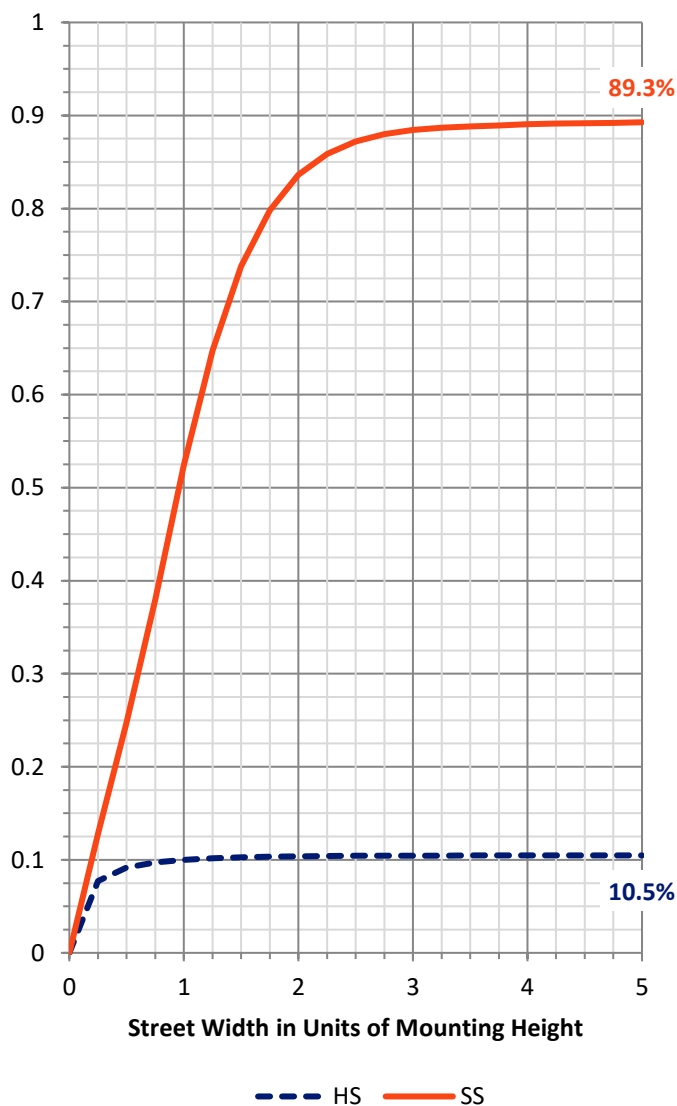
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.3	0.0	2021.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17153.4	0.0	17153.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	19174.7	0.0	19174.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	1.3
10°-20°	611.9	3.2
20°-30°	946.5	4.9
30°-40°	1717.4	9.0
40°-50°	3241.8	16.9
50°-60°	4684.1	24.4
60°-70°	4986.1	26.0
70°-80°	2642.3	13.8
80°-90°	86.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19174.7	100.0
0°-180°	19174.7	100.0

Coefficient of Utilization



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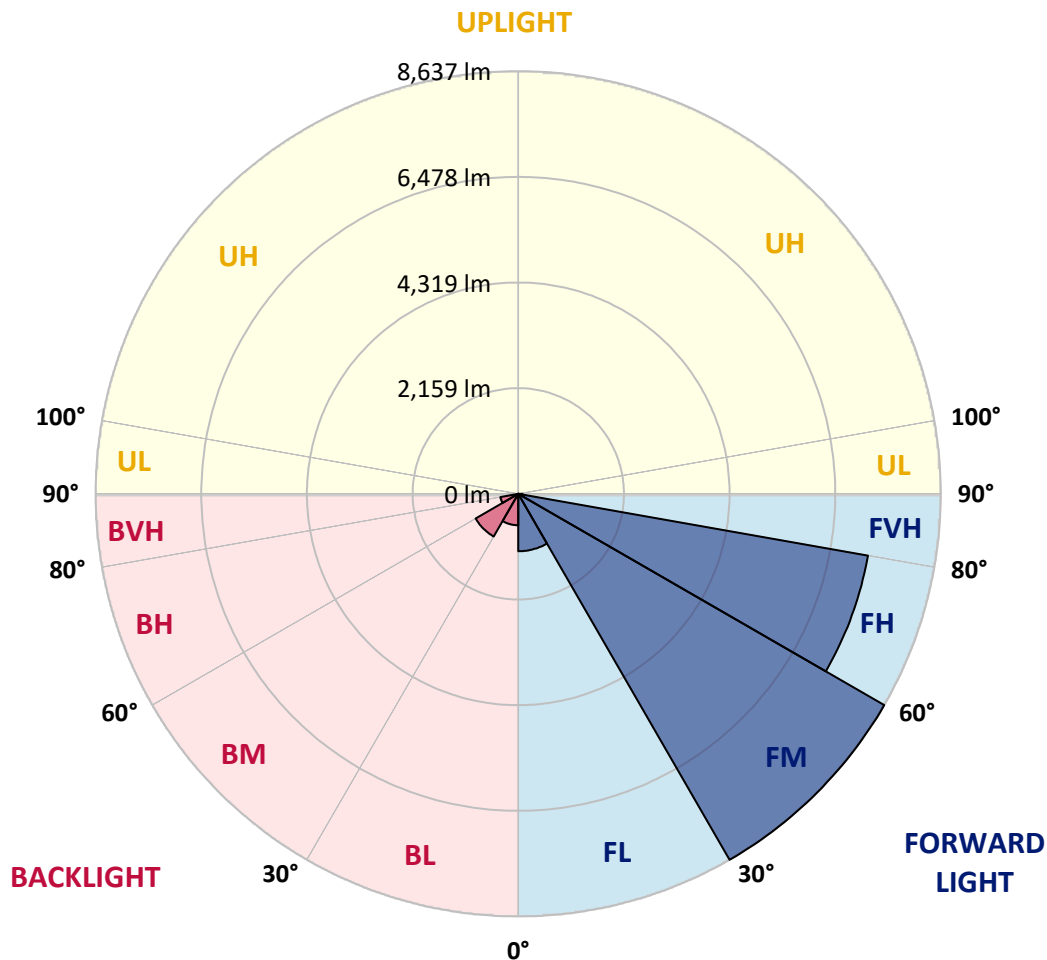
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.9	6.1			
FM	(30°-60°)	8637.1	45.0			
FH	(60°-80°)	7257.9	37.9			G3/7500
FVH	(80°-90°)	84.4	0.4			G1/100
BL	(0°-30°)	642.2	3.3	B2/1000		
BM	(30°-60°)	1006.2	5.2	B2/2500		
BH	(60°-80°)	370.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0
2.5°	2808.1	2833.5	2829.8	2846.8	2852.9	2877.1	2901.3	2934.0	2970.3	2969.1	2993.3
5°	2649.4	2674.8	2680.9	2704.0	2733.0	2770.5	2820.2	2885.6	2953.3	2964.3	3012.7
7.5°	2461.7	2488.4	2504.1	2550.1	2603.4	2680.9	2762.1	2857.7	2970.3	2986.0	3079.3
10°	2274.1	2298.3	2318.9	2384.3	2469.0	2584.0	2716.0	2854.1	3005.4	3028.5	3160.4
12.5°	2157.8	2180.8	2203.9	2260.7	2366.1	2506.5	2685.8	2871.0	3063.5	3096.2	3270.6
15°	2116.6	2137.2	2155.4	2206.2	2304.3	2464.2	2679.7	2906.2	3137.4	3181.0	3403.8
17.5°	2122.7	2133.6	2145.7	2184.5	2280.1	2444.8	2690.6	2966.7	3224.6	3263.4	3537.0
20°	2157.8	2163.9	2165.1	2191.8	2276.5	2442.4	2712.4	3024.8	3307.0	3359.0	3669.0
22.5°	2202.6	2205.1	2202.6	2220.8	2299.5	2460.5	2741.5	3095.1	3399.0	3447.4	3802.2
25°	2412.1	2366.1	2308.0	2272.8	2338.2	2495.7	2785.0	3189.5	3499.5	3546.7	3931.8
27.5°	3062.4	2930.4	2722.1	2488.4	2418.2	2546.5	2845.6	3285.1	3601.2	3643.6	4071.0
30°	4118.2	3945.1	3591.5	3064.7	2674.8	2653.1	2924.3	3380.9	3709.0	3755.0	4219.9
32.5°	5176.6	5134.2	4726.1	3997.2	3252.4	2890.4	3055.1	3510.4	3851.8	3888.1	4420.9
35°	6247.0	6161.0	5826.8	5106.3	4142.4	3373.6	3273.0	3679.9	4039.5	4080.7	4714.0
37.5°	7066.8	7014.7	6807.6	6214.3	5198.4	4119.5	3646.0	3942.7	4312.0	4358.0	5089.3
40°	7790.9	7766.6	7696.4	7305.3	6379.0	5095.5	4226.0	4349.5	4689.8	4744.3	5549.6
42.5°	8360.0	8416.9	8456.9	8347.9	7596.0	6209.4	5005.8	4921.0	5216.5	5272.2	6135.5
45°	8942.4	8961.8	9122.9	9280.2	8804.4	7374.4	5884.9	5590.7	5871.6	5940.6	6837.9
47.5°	9316.6	9394.1	9677.4	9954.7	9820.3	8529.5	6829.5	6381.4	6630.8	6760.4	7625.0
50°	9344.4	9491.0	9880.9	10364.0	10560.2	9629.1	7856.3	7282.3	7547.5	7690.4	8465.4
52.5°	8880.7	9108.4	9712.6	10419.7	10959.8	10560.2	8918.2	8183.2	8523.5	8709.9	9337.2
55°	6808.9	7106.7	9079.2	10117.0	10975.5	11266.2	9952.3	9121.7	9610.8	9821.6	10279.2
57.5°	5932.2	6082.3	7138.2	9591.4	10683.7	11550.7	10887.1	10015.3	10793.9	11055.4	11169.2
60°	4935.6	5133.0	5986.6	8731.8	10287.7	11578.5	11713.0	11168.1	12076.2	12370.5	11985.4
62.5°	3354.2	3568.5	4417.3	7254.4	9746.5	11565.2	12389.9	12354.7	13501.4	13817.5	12676.8
65°	2077.9	2212.3	2771.7	5923.7	8989.7	11579.7	13098.2	13795.7	15005.4	15326.2	13212.0
67.5°	1641.9	1703.8	1995.6	4548.1	7685.6	11252.9	13805.4	15150.7	16420.9	16675.2	13375.5
70°	1103.1	1140.6	1451.8	3049.1	5717.9	9744.1	13792.1	15831.2	17149.9	17277.0	12779.8
72.5°	581.3	610.3	848.8	1411.9	3453.4	6926.3	11625.8	15017.5	16424.5	16233.2	10923.4
75°	290.6	339.1	571.5	716.9	1474.9	3862.7	7219.4	11840.1	12927.5	12186.4	7008.6
77.5°	220.4	266.4	472.2	472.2	513.4	1300.5	3057.5	6457.7	5956.4	4959.8	2057.3
80°	140.4	181.6	412.9	357.2	214.3	330.6	796.7	1809.0	1265.4	962.7	374.1
82.5°	82.3	118.7	343.9	236.2	119.9	122.3	225.2	385.1	328.1	255.5	115.0
85°	32.7	77.5	236.2	93.3	47.3	30.2	67.9	82.3	67.9	50.8	29.1
87.5°	0.0	18.1	41.2	0.0	3.6	2.5	4.8	6.0	6.0	4.8	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0	2991.0
2.5°	3004.2	3006.6	3013.9	3015.1	2998.1	2976.4	2967.9	2964.3	2949.7	2948.5	2951.0
5°	3040.6	3051.4	3040.6	3009.1	2934.0	2828.7	2748.7	2683.3	2624.0	2605.9	2595.0
7.5°	3113.2	3124.1	3091.4	2967.9	2779.0	2569.5	2380.6	2247.4	2127.5	2082.7	2064.6
10°	3217.4	3231.8	3128.9	2879.5	2545.3	2208.7	1889.0	1663.8	1488.2	1416.8	1386.5
12.5°	3348.2	3354.2	3149.5	2745.1	2241.4	1760.6	1307.8	1066.8	910.6	852.5	834.4
15°	3492.2	3483.8	3152.0	2562.3	1827.3	1244.8	853.7	701.1	638.2	618.8	618.8
17.5°	3643.6	3608.4	3103.5	2298.3	1373.2	851.3	633.3	597.0	586.1	581.3	580.0
20°	3792.5	3713.8	3015.1	1953.1	985.6	635.7	575.1	564.3	558.2	555.8	553.4
22.5°	3928.1	3793.7	2863.7	1552.4	715.7	561.9	543.7	534.0	523.1	518.2	517.0
25°	4060.1	3839.8	2650.6	1178.2	572.8	525.5	511.0	492.8	478.3	472.2	469.9
27.5°	4188.5	3868.8	2384.3	871.9	511.0	491.6	464.9	439.5	428.7	426.2	423.8
30°	4325.3	3878.5	2081.6	650.3	473.4	449.3	410.5	381.4	375.4	376.6	376.6
32.5°	4492.4	3893.1	1776.4	532.8	442.0	398.4	352.4	322.1	317.2	322.1	320.9
35°	4692.2	3922.1	1482.1	490.4	414.1	346.3	296.6	271.2	266.4	270.0	268.9
37.5°	4963.5	3969.3	1207.2	482.0	391.1	302.7	249.5	228.9	228.9	230.1	228.9
40°	5324.3	4095.3	961.4	475.9	379.0	270.0	210.7	202.2	205.8	208.3	208.3
42.5°	5763.9	4362.8	795.6	468.6	365.7	255.5	191.4	187.7	193.7	196.2	196.2
45°	6256.7	4701.9	737.4	456.5	353.6	265.2	182.9	178.0	185.2	186.4	187.7
47.5°	6766.4	5033.7	730.2	443.2	341.4	279.7	180.4	169.5	178.0	179.2	180.4
50°	7282.3	5250.5	737.4	422.6	322.1	279.7	181.6	161.0	168.3	172.0	173.1
52.5°	7801.8	5349.7	732.6	377.8	288.2	262.8	181.6	153.8	161.0	163.5	163.5
55°	8305.5	5330.3	658.8	311.2	244.6	232.5	176.8	147.7	152.6	153.8	153.8
57.5°	8703.9	5060.3	521.9	242.2	198.5	193.7	161.0	140.4	144.1	142.9	142.9
60°	8912.2	4467.0	373.0	186.4	156.2	152.6	141.7	130.8	133.1	127.1	126.0
62.5°	8914.6	3682.3	249.5	147.7	124.7	121.1	121.1	117.5	115.0	102.9	99.3
65°	8724.5	2811.7	165.8	117.5	100.6	94.4	101.7	100.6	92.0	75.0	72.7
67.5°	8293.4	1843.0	126.0	92.0	77.5	73.9	81.2	84.8	78.7	62.9	61.7
70°	7407.1	1072.9	104.1	71.4	58.1	54.5	65.4	72.7	65.4	50.8	48.5
72.5°	6152.6	578.8	84.8	53.3	40.0	36.3	52.1	59.3	52.1	37.5	36.3
75°	3992.3	310.0	65.4	35.2	20.6	23.0	38.7	43.6	36.3	24.2	21.8
77.5°	1340.5	136.8	41.2	16.9	9.7	9.7	23.0	26.6	16.9	8.5	7.3
80°	299.1	56.9	16.9	7.3	3.6	3.6	4.8	4.8	2.5	0.0	0.0
82.5°	98.1	23.0	7.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.5	8.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)